

【配列表】

SEQUENCE LISTING

<110> RIKEN

AJINOMOTO CO., INC.

<120> A method for providing a property of stress-resistance

<130> RJH12-099K

<140>

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<160> 15

<170> PatentIn Ver. 2.0

<210> 1

<211> 344

<212> PRT

<213> Arabidopsis thaliana

<400> 1

Met Ala Pro Gly Leu Thr Gln Thr Ala Asp Ala Met Ser Thr Val Thr

1

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15

Ile Thr Lys Pro Ser Leu Pro Ser Val Gln Asp Ser Asp Arg Ala Tyr

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25

30

Val Thr Phe Leu Ala Gly Asn Gly Asp Tyr Val Lys Gly Val Val Gly
35 40 45

Leu Ala Lys Gly Leu Arg Lys Val Lys Ser Ala Tyr Pro Leu Val Val
50 55 60

Ala Met Leu Pro Asp Val Pro Glu Glu His Arg Arg Ile Leu Val Asp
65 70 75 80

Gln Gly Cys Ile Val Arg Glu Ile Glu Pro Val Tyr Pro Pro Glu Asn
85 90 95

Gln Thr Gln Phe Ala Met Ala Tyr Tyr Val Ile Asn Tyr Ser Lys Leu
100 105 110

Arg Ile Trp Lys Phe Val Glu Tyr Ser Lys Met Ile Tyr Leu Asp Gly
115 120 125

Asp Ile Gln Val Tyr Glu Asn Ile Asp His Leu Phe Asp Leu Pro Asp
130 135 140

Gly Tyr Leu Tyr Ala Val Met Asp Cys Phe Cys Glu Lys Thr Trp Ser
145 150 155 160

His Thr Pro Gln Tyr Lys Ile Arg Tyr Cys Gln Gln Cys Pro Asp Lys
165 170 175

Val Gln Trp Pro Lys Ala Glu Leu Gly Glu Pro Pro Ala Leu Tyr Phe

180

185

190

Asn Ala Gly Met Phe Leu Tyr Glu Pro Asn Leu Glu Thr Tyr Glu Asp

195

200

205

Leu Leu Arg Thr Leu Lys Ile Thr Pro Pro Thr Pro Phe Ala Glu Gln

210

215

220

Asp Phe Leu Asn Met Tyr Phe Lys Lys Ile Tyr Lys Pro Ile Pro Leu

225

230

235

240

Val Tyr Asn Leu Val Leu Ala Met Leu Trp Arg His Pro Glu Asn Val

245

250

255

Glu Leu Gly Lys Val Lys Val Val His Tyr Cys Ala Ala Gly Ser Lys

260

265

270

Pro Trp Arg Tyr Thr Gly Lys Glu Ala Asn Met Glu Arg Glu Asp Ile

275

280

285

Lys Met Leu Val Lys Lys Trp Trp Asp Ile Tyr Asp Asp Glu Ser Leu

290

295

300

Asp Tyr Lys Lys Pro Val Thr Val Val Asp Thr Glu Val Asp Leu Val

305

310

315

320

Asn Leu Lys Pro Phe Ile Thr Ala Leu Thr Glu Ala Gly Arg Leu Asn

325

330

335

Tyr Val Thr Ala Pro Ser Ala Ala

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<212> PRT

<213> Arabidopsis thaliana

<400> 2

Met Ala Pro Glu Ile Asn Thr Lys Leu Thr Val Pro Val His Ser Ala

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5

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15

Thr Gly Gly Glu Lys Arg Ala Tyr Val Thr Phe Leu Ala Gly Thr Gly

20

25

30

Asp Tyr Val Lys Gly Val Val Gly Leu Ala Lys Gly Leu Arg Lys Ala

35

40

45

Lys Ser Lys Tyr Pro Leu Val Val Ala Val Leu Pro Asp Val Pro Glu

50

55

60

Asp His Arg Lys Gln Leu Val Asp Gln Gly Cys Val Val Lys Glu Ile

65

70

75

80

Glu Pro Val Tyr Pro Pro Glu Asn Gln Thr Glu Phe Ala Met Ala Tyr

85

90

95

Tyr Val Ile Asn Tyr Ser Lys Leu Arg Ile Trp Glu Phe Val Glu Tyr

100	105	110
Asn Lys Met Ile Tyr Leu Asp Gly Asp Ile Gln Val Phe Asp Asn Ile		
115	120	125
Asp His Leu Phe Asp Leu Pro Asn Gly Gln Phe Tyr Ala Val Met Asp		
130	135	140
Cys Phe Cys Glu Lys Thr Trp Ser His Ser Pro Gln Tyr Lys Ile Gly		
145	150	155
		160
Tyr Cys Gln Gln Cys Pro Asp Lys Val Thr Trp Pro Glu Ala Lys Leu		
165	170	175
Gly Pro Lys Pro Pro Leu Tyr Phe Asn Ala Gly Met Phe Val Tyr Glu		
180	185	190
Pro Asn Leu Ser Thr Tyr His Asn Leu Leu Glu Thr Val Lys Ile Val		
195	200	205
Pro Pro Thr Leu Phe Ala Glu Gln Asp Phe Leu Asn Met Tyr Phe Lys		
210	215	220
Asp Ile Tyr Lys Pro Ile Pro Pro Val Tyr Asn Leu Val Leu Ala Met		
225	230	235
		240
Leu Trp Arg His Pro Glu Asn Ile Glu Leu Asp Gln Val Lys Val Val		
245	250	255

His Tyr Cys Ala Ala Gly Ala Lys Pro Trp Arg Phe Thr Gly Glu Glu
 260 265 270

Glu Asn Met Asp Arg Glu Asp Ile Lys Met Leu Val Lys Lys Trp Trp
 275 280 285

Asp Ile Tyr Asn Asp Glu Ser Leu Asp Tyr Lys Asn Val Val Ile Gly
 290 295 300

Asp Ser His Lys Lys Gln Gln Thr Leu Gln Gln Phe Ile Glu Ala Leu
 305 310 315 320

Ser Glu Ala Gly Ala Leu Gln Tyr Val Lys Ala Pro Ser Ala Ala
 325 330 335

<210> 3

<211> 1064

<212> DNA

<213> Arabidopsis thaliana

<400> 3

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 gattacgtga aaggagtcgt tggtttagcc aaagggttaa ggaaagtcaa atcggccttat 180
 ccactcgtag tagcgatggt acccgacgtc ccggaggaac accgtcgtat acttgtggat 240
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 gccatggctt attacgtcat caactactct aaactccgta tctggaagtt tgtggagtat 360
 agtaaaatga tataattaga tggagacatt caagtttacg aaaacatcga tcacttgttt 420

gacctaccag atggctatit gtacgcggtg atggattggt tctgtgagaa aacatggagt 480
 cacacgccgc aatacaagat cagatatitg caacaatgcc ccgacaaagt ccagtggcca 540
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 cctaacctcg agacttacga ggatctacta cgaacactta aaatcactcc tccgactcct 660
 ttcgctgaac aggatititit gaacatgtac tttaagaaaa tctacaagcc gattccttta 720
 gtgtacaatc tegtctitgc gatgttatgg cgtcacccag aaaatgtaga gcttggaaaa 780
 gtcaagggtg ttactactig tgcagcgggt tcgaagccgt ggagatacac agggaaagaa 840
 gcgaacatgg agagggaaga tataaaaatg ttagtgaaaa aatggtggga catttacgac 900
 gacgaatcct tggattacaa gaaacctgtt accgtitgtg acacagaggt cgatctcgtg 960
 aatctgaagc cgttcatcac cgctcttact gaagctggcc ggctcaacta cgtgaccgca 1020
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<210> 4

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer

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<210> 5

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

Patent 6,666,666

<223> Description of Artificial Sequence:primer

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caaggatccc ctggcaatca agcagcgga 29

<210> 6

<211> 22

<212> DNA

<213> Artificial Sequence

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<212> DNA

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catgaagagg cgtatgcagc 20

<210> 8

<211> 20

<212> DNA

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<223> Description of Artificial Sequence:primer

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<210> 9

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<210> 11

<211> 32

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<223> Description of Artificial Sequence:primer

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<210> 12

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<212> DNA

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<210> 13

<211> 30

<212> DNA

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<210> 15

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:primer

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